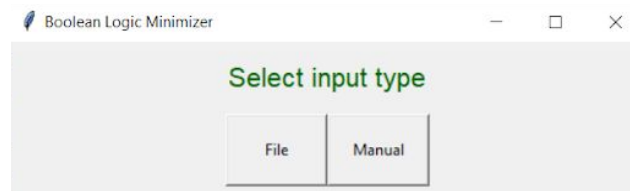


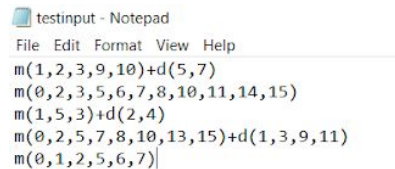
## Testing Instructions

To run the source code:

1. Open Command Prompt on Windows or Terminal on Mac and cd into the pr1\_code folder (which is included in the main submitted zipped folder along with this testing instructions file and project report)
2. Enter “python pr1\_main.py”
3. A pop-up box should appear asking you to select the desired input type: file or manual. Select appropriately.

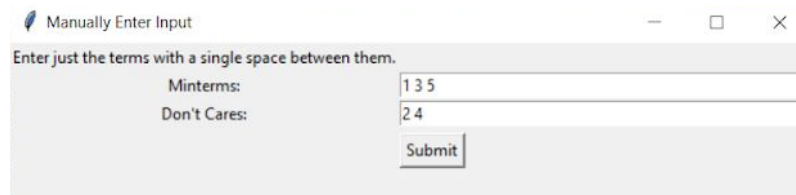


- a. If you select File:
  - i. Once you select the file option, a file search box should appear. Use this to go to the folder where the input text file is located and select the file.
  - ii. NOTE: A file can have multiple functions, each on a new line. Make sure that they follow the format  $m(\dots) + d(\dots)$ , and that there are no empty lines at the end of the file.

A screenshot of a Notepad window titled "testinput - Notepad". The window contains a list of functions:

```
File Edit Format View Help
m(1,2,3,9,10)+d(5,7)
m(0,2,3,5,6,7,8,10,11,14,15)
m(1,5,3)+d(2,4)
m(0,2,5,7,8,10,13,15)+d(1,3,9,11)
m(0,1,2,5,6,7)
```

- b. If you select Manual:

A screenshot of a window titled "Manually Enter Input". It contains the instruction "Enter just the terms with a single space between them." Below this are two input fields: "Minterms:" with the value "1 3 5" and "Don't Cares:" with the value "2 4". There is a "Submit" button at the bottom right.

- i. A new pop up box should appear with two input boxes: one for minterms and one for don't cares. Enter each number with a single space between them and click submit. Do not enter the m or d or parentheses.
  - ii. NOTE: You can only manually enter one function at a time. If you wish to enter another function, run the program again from step 2.
4. The output will appear on a new pop up box with each function given by its minimized form in SOP and POS. The steps and calculations for each function can be viewed on the terminal screen. SOP and POS calculations are shown individually for each function.